



38 AUG 14 AM 9:30

RECEIVED
GROUP 340

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Mannava, et al.

)

Serial No: 08/719,341

Group Art Unit: 3745

Filed: September 25, 1996

C. Verdiere

For: LASER SHOCK PEENED GAS TURBINE
ENGINE COMPRESSOR AIRFOIL EDGESExaminer: C. Verdiere

I hereby certify that this correspondence is being
deposited with the United States Postal Service with sufficient
postage as first class mail in an envelope addressed to:
Assistant Commissioner for Patents
Washington, D.C. 20231

Hon. Assistant Commissioner for Patents
Washington, D.C. 20231

on

Aug. 6, 1998
DateMarie M. Fehl

Signature

MARIE M. FEHL
Typed or printed name
of person signing certificate

SIR:

AMENDMENT

In response to the Office Action mailed June 8, 1998,
please make the below-identified amendments and consider the
following remarks:

RECEIVED

AUG 13 1998

IN THE CLAIMS:

Please amend the following Claims as indicated. CRN IP 3200

*Enter for
Appeal only 8-3198 w*
17. (TWICE AMENDED) A compressor blade as claimed in claim
16 further comprising:

a third laser shock peened surface located opposite said
first laser shock peened surface such that said first and
third laser shock peened surfaces are located along pressure
and suction sides of said leading edge respectively,

a third region having deep compressive residual stresses
imparted by laser shock peening (LSP) extending into said
airfoil from said third laser shock peened surface,

a fourth laser shock peened surface located opposite
said second laser shock peened surface such that said second
and fourth laser shock peened surfaces are located along
pressure and suction sides of said trailing edge respectively,
and

said third and fourth regions having deep compressive
residual stresses imparted by laser shock peening (LSP)
extending into said airfoil from said third and fourth laser
shock peened surfaces respectively.